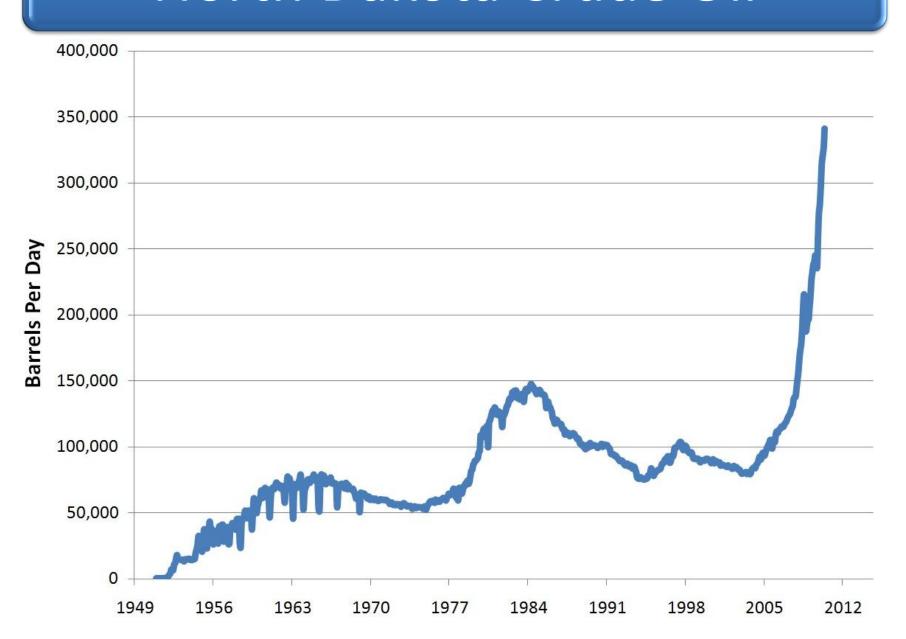


North Dakota Pipeline Authority
Legislative Briefings
Justin J. Kringstad
December 13-15, 2010

North Dakota Crude Oil



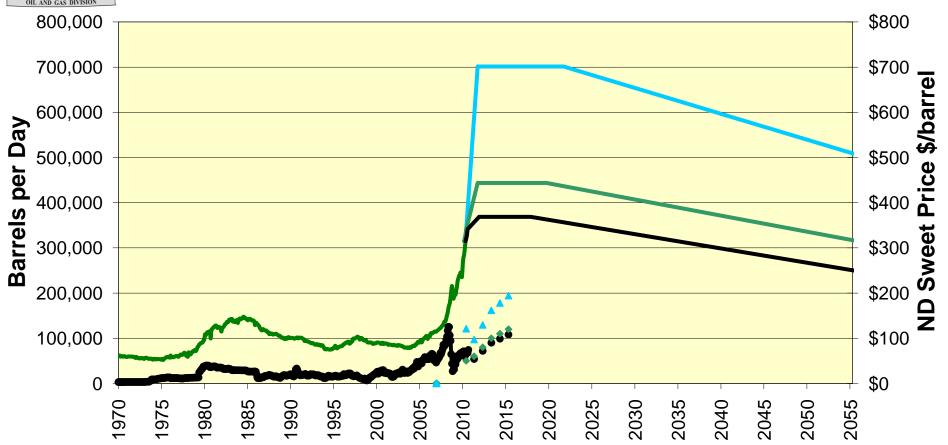
Prediction is very difficult, especially if it's about the future.

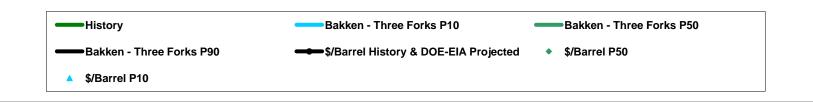
-Niels Bohr



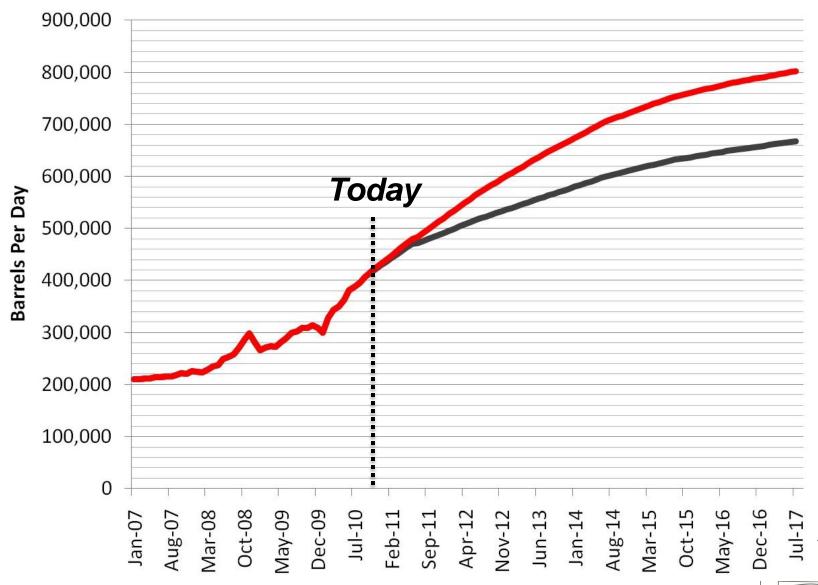
OIL AND GAS DIVISION

North Dakota Oil Production and Price



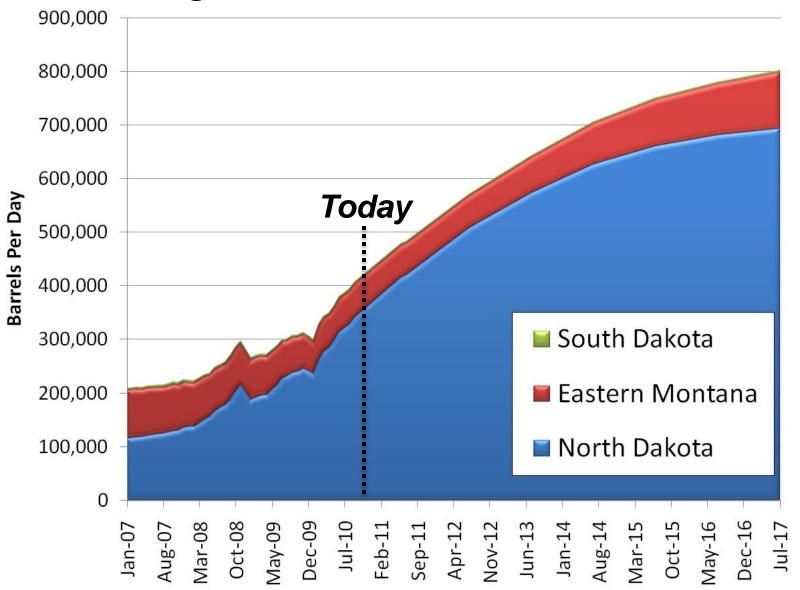


Forecasting Williston Basin Oil Production, BOPD

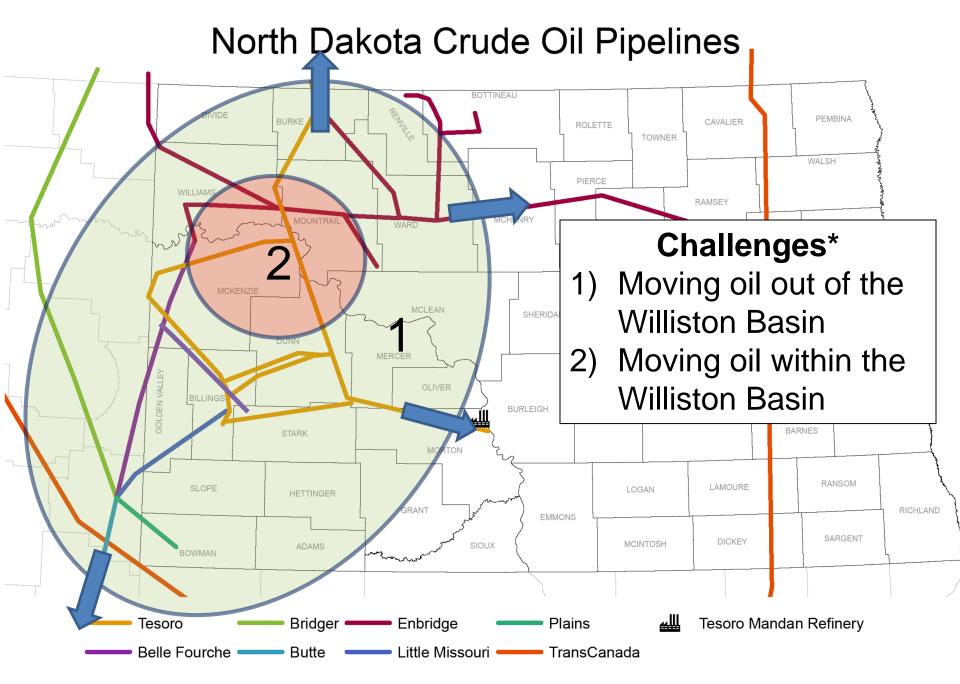


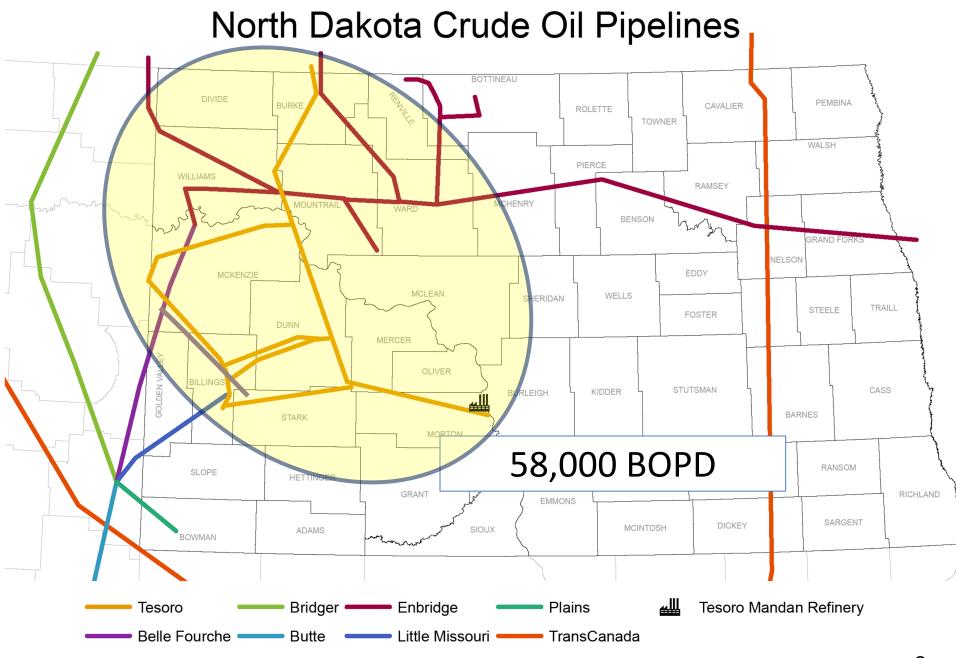
Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.

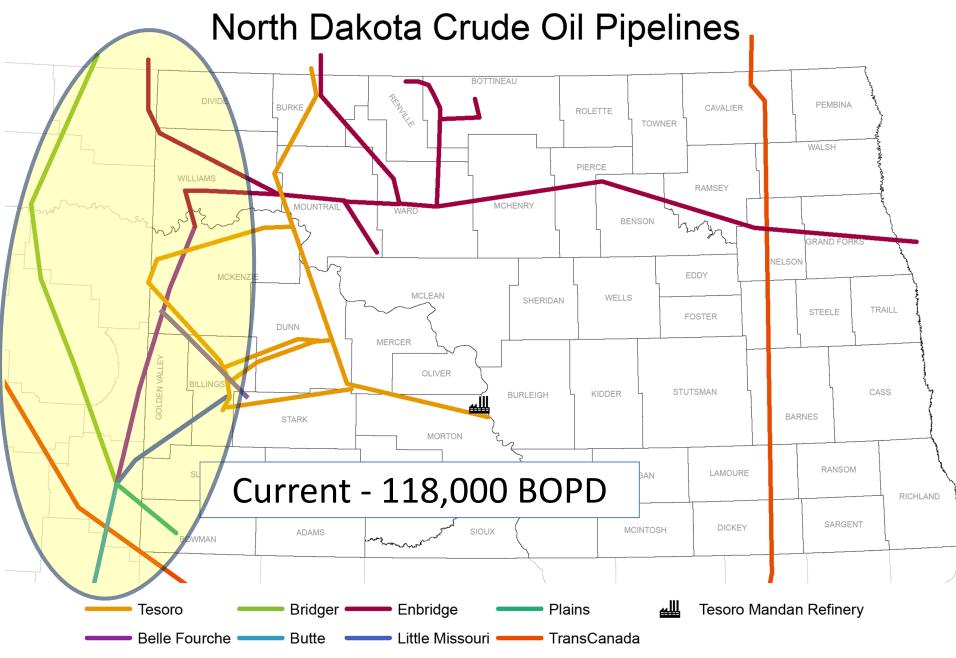
Forecasting Williston Basin Oil Production, BOPD

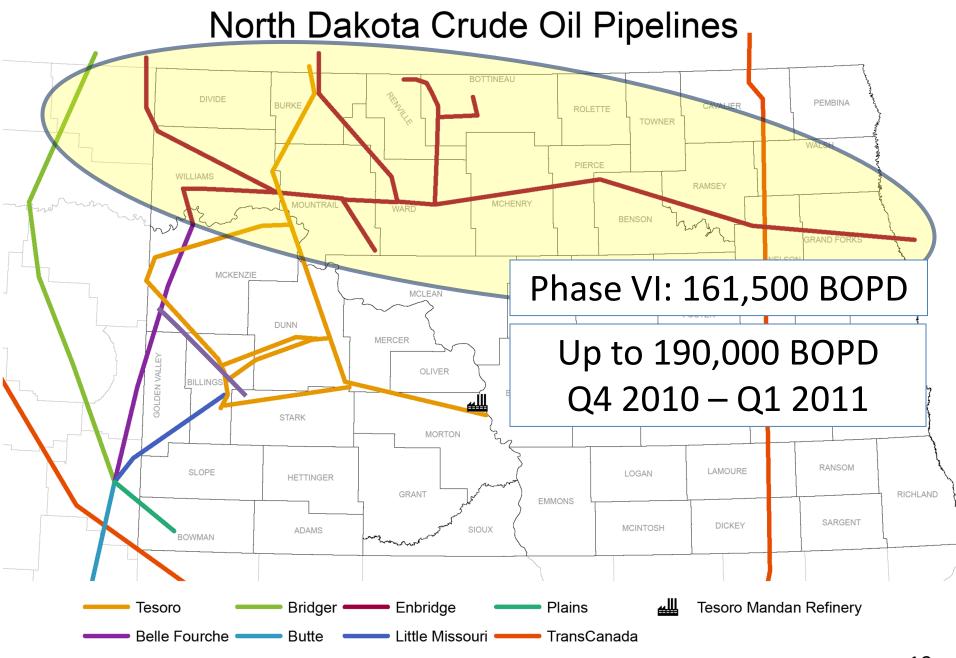


Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.









Rail Transportation



Others Include:

Minot

Dore

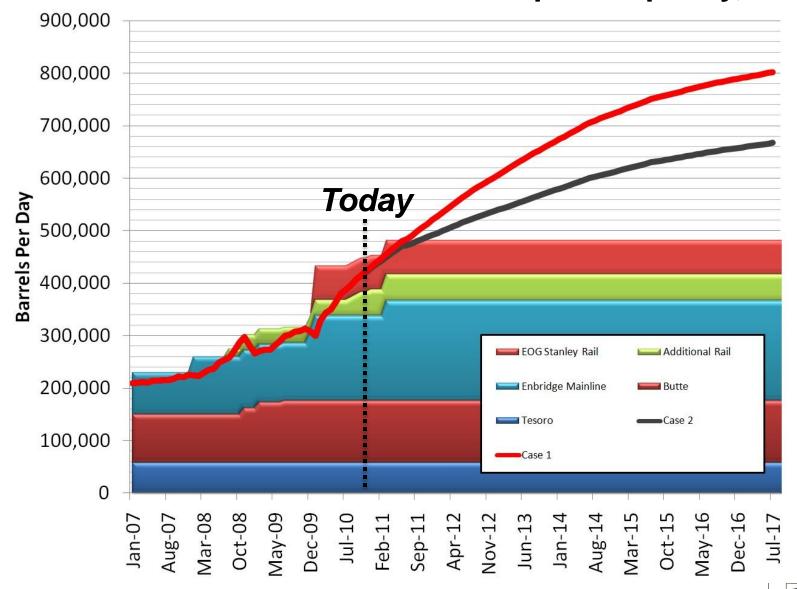
Stampede

Donnybrook

Dakota Transport Solutions - New Town, ND

Images Provided By: Loren Kopseng

Williston Basin Oil Production & Export Capacity, BOPD



Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.

The future starts today, not tomorrow.

-Pope John Paul II



Several Exciting Developments For Post 2010 Crude Oil Transport

Enbridge Bakken Expansion Program

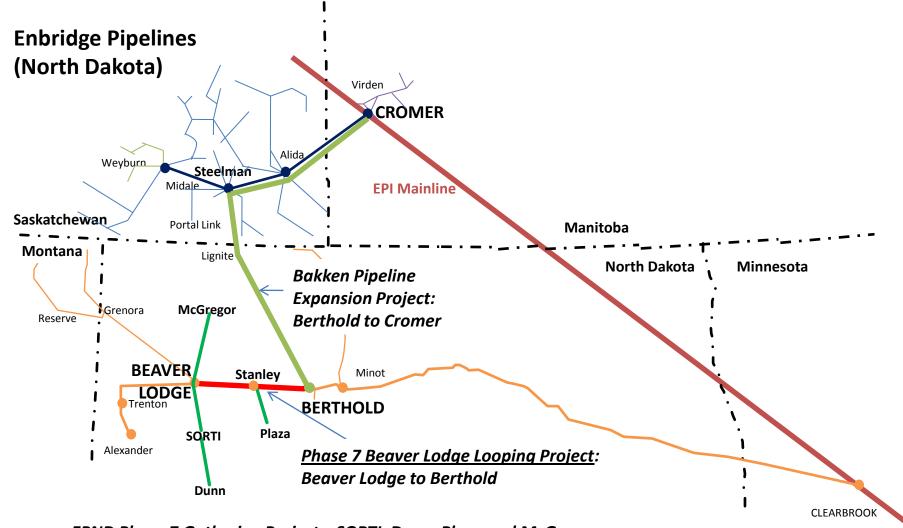
Keystone XL Marketlink

True Co.'s Baker 300

Plains Bakken North

Unit Train Development

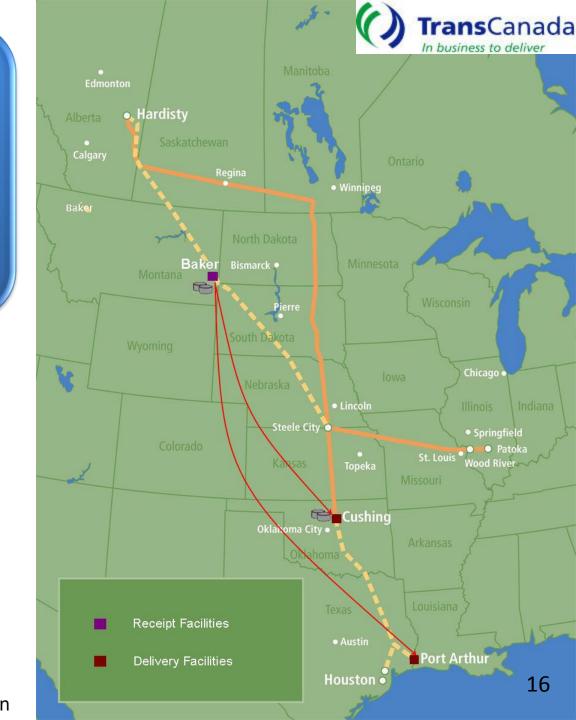
Bakken Pipeline Expansion



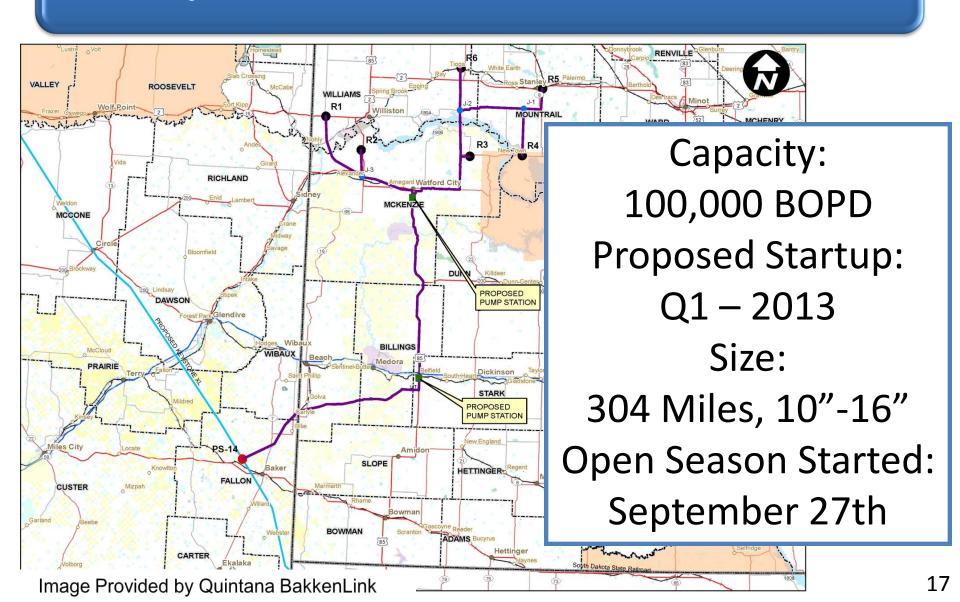
EPND Phase 7 Gathering Projects: SORTI, Dunn, Plaza and McGregor

Proposed TransCanada Marketlink

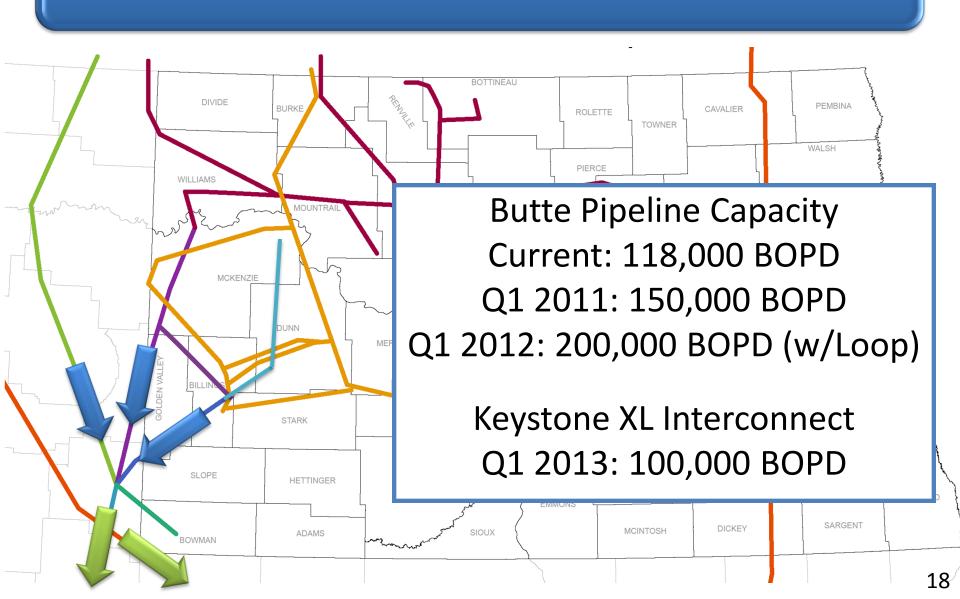
- Binding OpenSeason Complete
- Q1 2013
 Proposed Startup



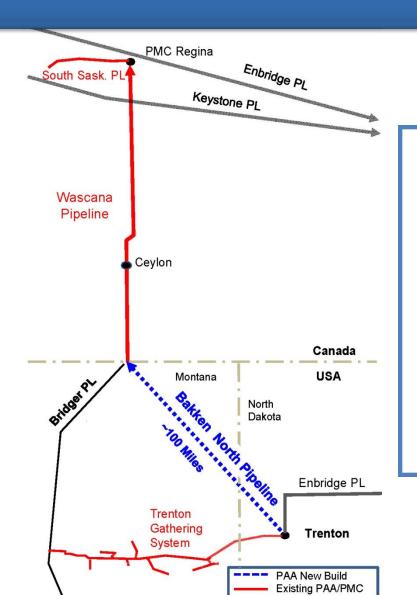
Proposed Quintana BakkenLink



True Co.'s Proposed "Baker 300"



Plains Bakken North Pipeline

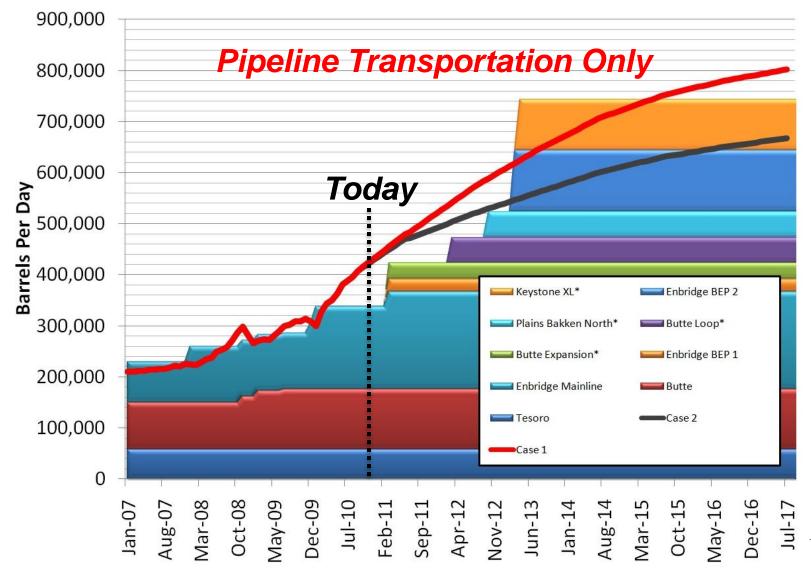


Proposed Capacity 50,000-75,000 BOPD Q4 2012

New 103 Miles, 12" Pipeline Reverse Wascana Pipeline

\$160-\$200 Million

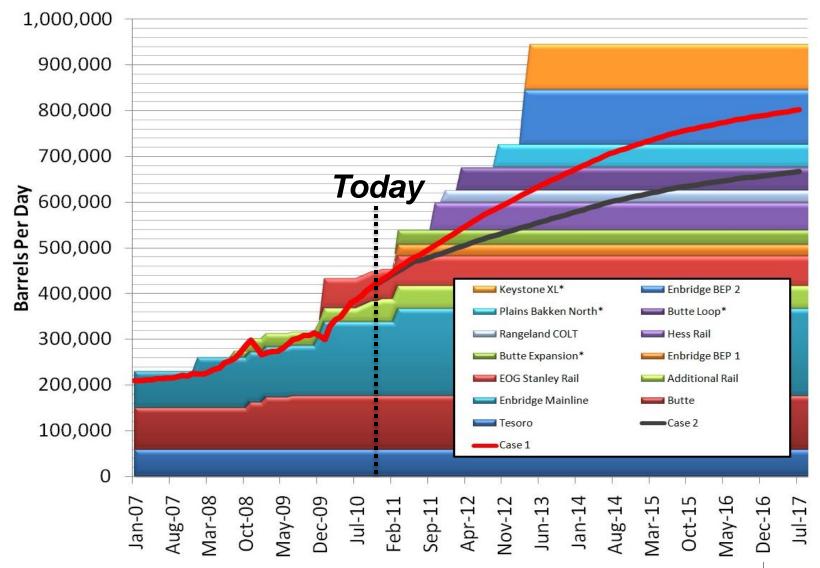
Williston Basin Oil Production & Export Capacity, BOPD



Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.

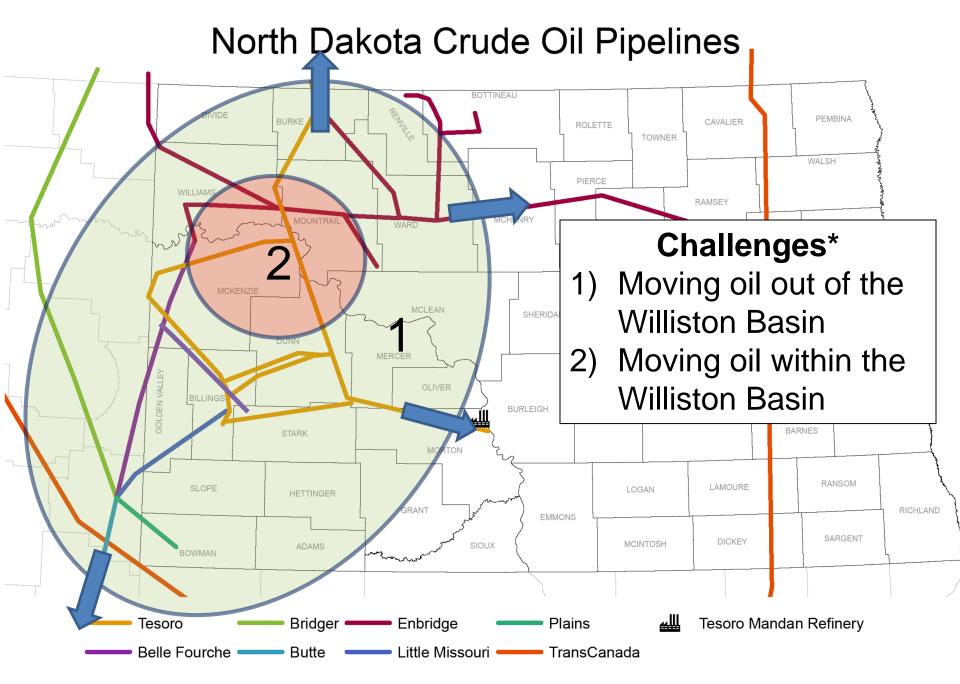
*Projects still in the proposed or internal review process

Williston Basin Oil Production & Export Capacity, BOPD

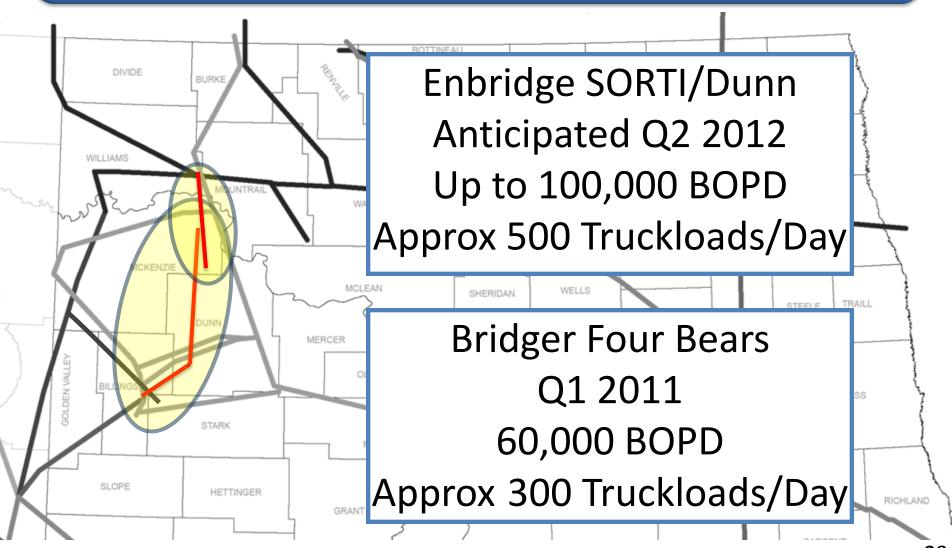


Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.

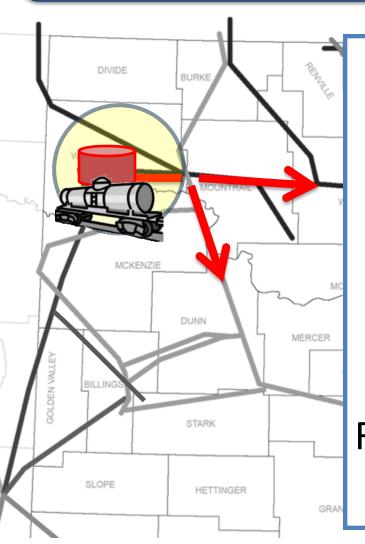
*Projects still in the proposed or internal review process



Reducing Truck Traffic



Rangeland COLT Hub and Pipeline



Gathering, Storage, & Transportation

Tie into Enbridge & Tesoro (20 Mile - 8" - 40,000 BOPD)

Anticipated Dec 2011

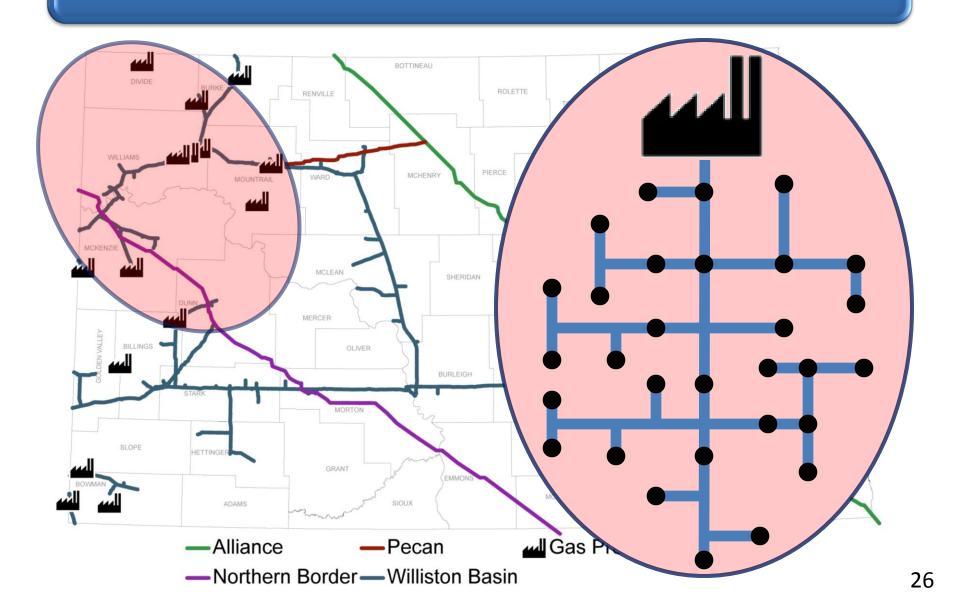
210,000 Barrels of Tankage

Rail up to 27,000 BOPD initially (Expandable up to 60,000)

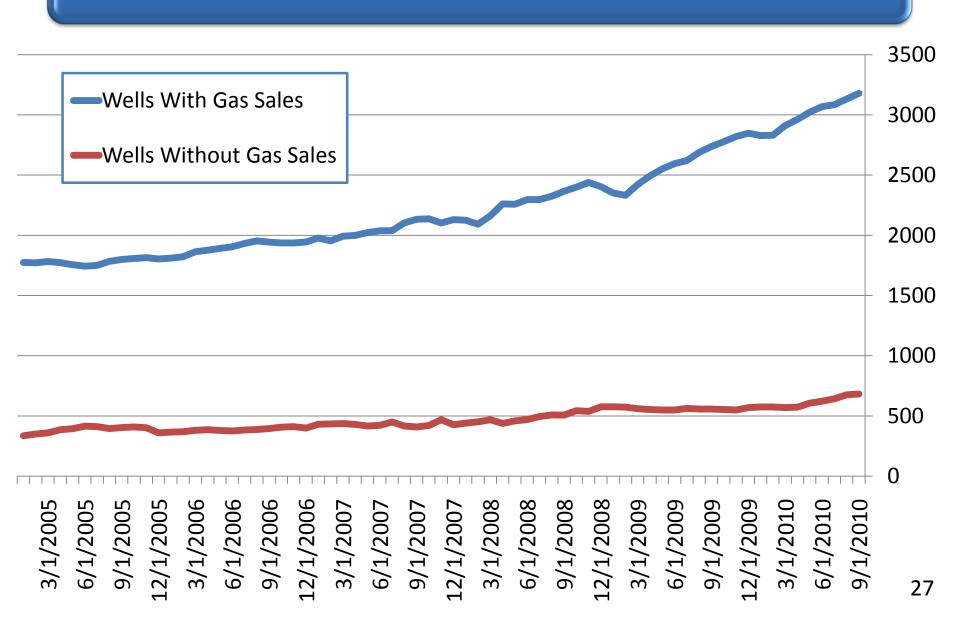
Natural Gas Projects

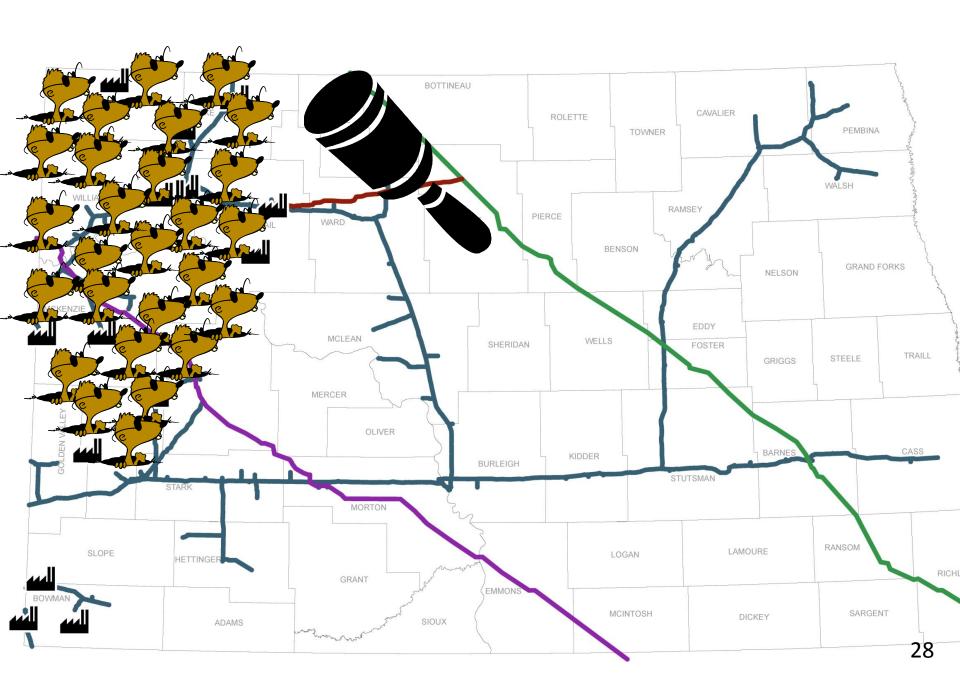


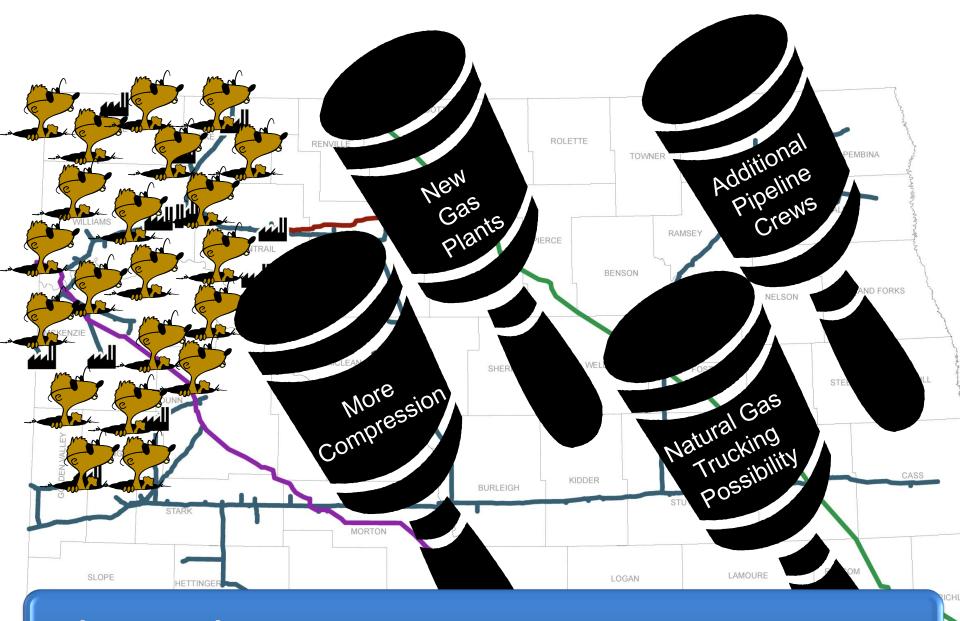
Natural Gas Challenges



ND Gas Gathering Statistics

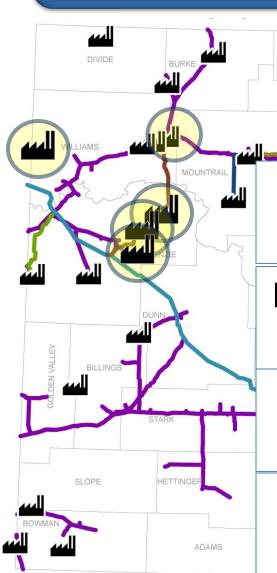






\$2.2 - \$2.5 BILLION In the Next 1-3 Yrs

New or Expanding Gas Plants



Hess Tioga Gas Plant

Current: 110 MMCFD

Q4 2012: 250 MMCFD



RICHLAND

Saddle Butte Pipeline

Q4 2010: 45 MMCFD

Hiland Partners Watford City Plant Q1 2011: 50 MMCFD

ONEOK Garden Creek Plant Q4 2011: 100 MMCFD

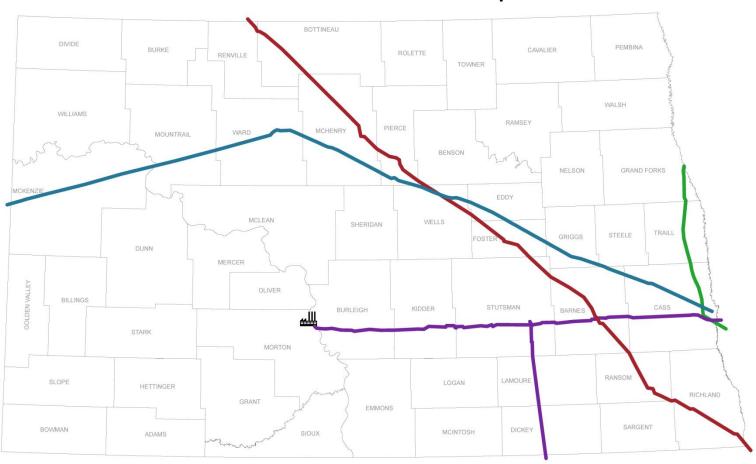
ONEOK Stateline I Plant Q3 2012: 100 MMCFD

Refining Study



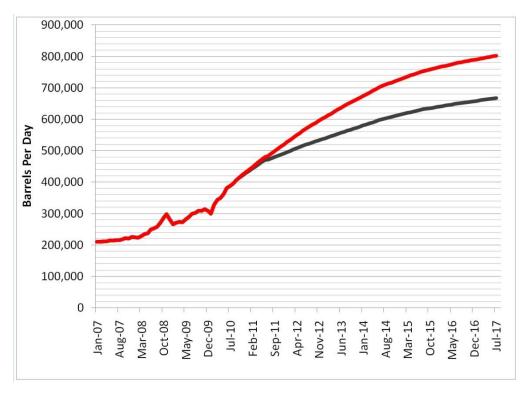
Refining Study

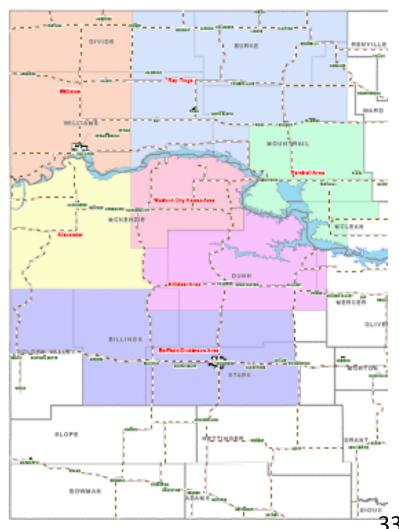
North Dakota Products Pipelines



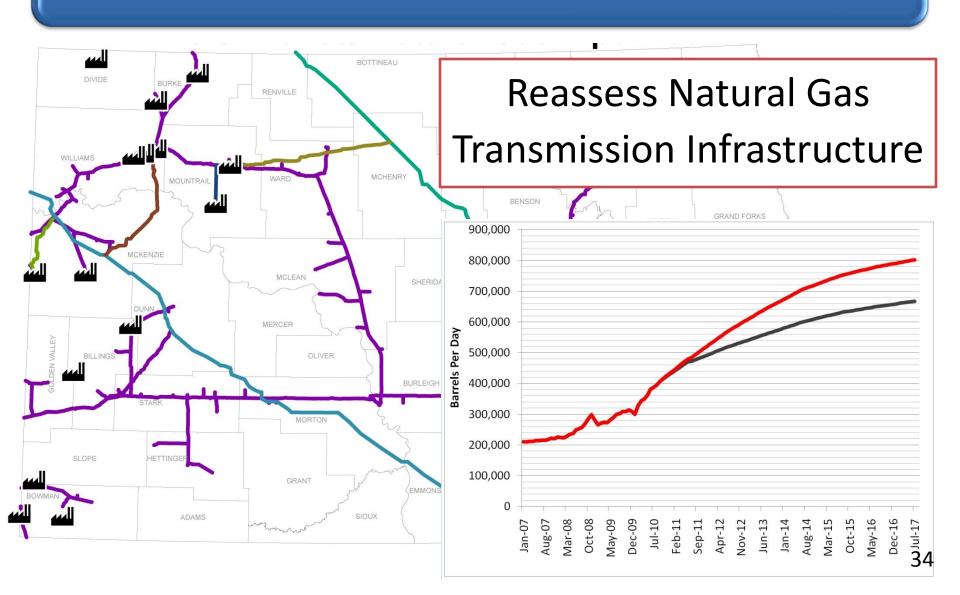
What's Next for the NDPA...

Enhanced Regional Forecasting



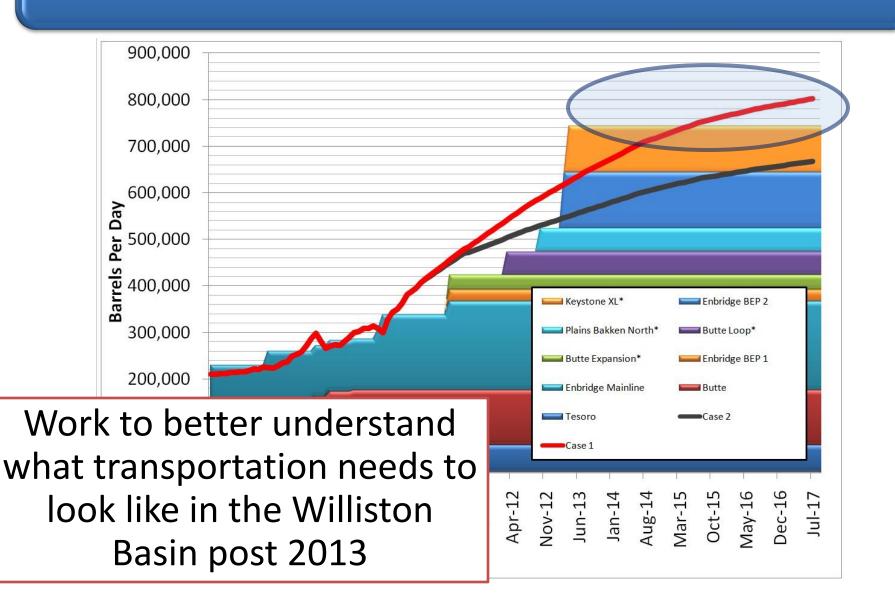


What's Next for the NDPA...



What's Next for the NDPA... PEMBINA **Further Work With Industry** to Address Challenge #2 NELSON **EDDY** MCLEAN WELLS SHERIDAN TRAILL STEELE **FOSTER** MERCER OLIVER STUTSMAN CASS **KIDDER** BURLEIGH BARNES STARK RANSOM LAMOURE SLOPE **HETTINGER** RICHLAND **EMMONS** SARGENT DICKEY MCINTOSH SIOUX **ADAMS** Tesoro Bridger • Enbridge **Plains** Tesoro Mandan Refinery 35 Little Missouri — TransCanada Belle Fourche Butte

What's Next for the NDPA...



Public Presence



NDPA Monthly Webinars

• Past Slides and Video Available Online

Industry **Experts**

 Audience Interaction

 New Topics **Each Month**



INDUSTRIAL COMMISSION OF NORTH DAKOTA

NORTH DAKOTA PIPELINE AUTHORITY Governor John Hoeven Attorney General Wayne Stenehjem Agriculture Commissioner Doug Goehring Director Justin J. Kringstad

Pipeline Publication

Volume II Issue IV - December 2009

Greetings

Season's Greetings from the North Dakota Pipeline Authority! While the temperature in North Dakota is dropping fast, the activity in North Dakota's oilfields is heating up. With more rigs moving into the basin, improved well completion techniques, and quicker spud to spud times, North Dakota petroleum production is expected to grow for many years to come. Along with the growing crude oil production, several exciting transportation expansion projects are very near completion, with many more in the works. For additional project information, past newsletters, maps, reports, and more please visit the Pipeline Authority website, www.pipeline.nd.gov.

Enbridge Phase VI Expansion Update

The much anticipated Enbridge Phase VI Expansion is nearly complete. Scheduled to be in service on January 1, 2010, the expansion will increase Enbridge's mainline capacity to Clearbrook, MN from 110,000 barrels per day (BOPD) to 161,600 BOPD. Once complete, Enbridge North Dakota will have more than doubled its 2007 system capacity of 80,000 BOPD.

More good news is that Enbridge has no intentions of stopping at 161,600 BOPD and is actively working to gain support from interested shippers for the proposed Portal Reversal Expansion Project or PREP. As proposed, PREP would allow Enbridge to transport an additional 30,000 BOPD by 2011 and up to an additional 115,000 BOPD by 2013.



Details of Enbridge's Phase VI Expansion. Source: Enbridge Pipelines LLC - www.enbridge-expansion.com

tatistic North Dakota Statis

	Aug-09	Sept-09	Oct-09
Average Daily Oil Production, BOPD	232,355	238,265	239,067
Average Daily Gas Production, MMCFD	266.66	259.76	253.04
Wells Producing	4,545	4,579	4,606
Average Rig Count	45	51	56

As of December 16, 2009, there are 77 active rigs in North Dakota.

www.pipeline.nd.gov

Prairie Rose Pipeline Nears Completion

An unexpected construction specification change has delayed the startup of the Pecan Prairie Rose Pipeline until Mid-January, 2010. The new 75 mile, 12 inch pipeline is designed to transport up to 80 million cubic feet of unprocessed natural gas per day from Mountrail County to an interconnect with the Alliance Pipeline near Towner, ND.

Proposed Baker Storage Enhancement

Williston Basin Interstate Pipeline Company is developing a project to increase firm deliverability from its Baker gas storage field in eastern Montana. With current firm storage withdrawal rates of 115 million cubic feet per day (MMCFD), Williston Basin sees an opportunity to add an additional 125 MMCFD of firm withdrawal capacity, which would more than double the firm withdrawal rate from Baker. Along with the gas storage field upgrades, Williston

Basin is planning a pipeline expansion to transport the increased, firm storage volumes to an interconnect with the Northern Border Pipeline in North Dakota. The project has a proposed in-service date of 2012 and an open season is expected in January 2010.

Natural Gas Storage Explained

During the mid 1900's, natural gas grew in popularity as a winter heating fuel. As a result, natural gas markets began experiencing seasonal demand swings that needed be managed using underground storage operations. Depleted natural gas fields are most often targeted for storage due to existing infrastructure and reservoir knowledge. During the summer months when demand is low, natural gas is injected into storage and when demand increases in the winter months, natural gas is withdrawn for consumer use.



Source: Williston Basin Interstate Pipeline Co.

ND Pipeline Authority

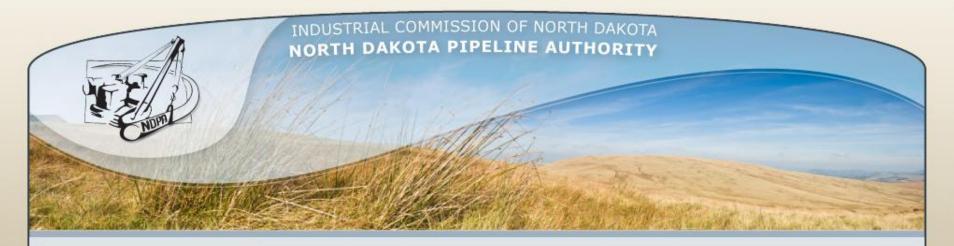
State Capitol 14th Floor • 600 E. Boulevard Ave. Dept. 405 • Bismarck, ND 58505-0840 Phone: (701) 220-6227 • Fax: (701) 328-2820

E-mail: jjkringstad@gmail.com • www.pipeline.nd.gov

Bismarck, ND 58505-0840 600 E. Boulevard Ave. Dept. 405 State Capitol, 14th Floor

lorth Dakota Pipeline Authority





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» ABOUT PIPELINES

"Pipelines are really the energy lifelines of almost every daily activity. Pipelines play a role in everyone's lives and are essential to the nation's industries. Yet few people are aware of the work done by the country's 200,000-mile petroleum pipeline network that delivers the products that are integral parts of America's economy. It is a network that delivers the nation's crude oil and petroleum products (such as gasoline, jet fuel, home heating oil) reliably, safely, efficiently, and economically." ~ Pipeline 101

To learn more about pipeline operations, safety, construction, and more, please visit:



Supply Line Video



· Video provided by AOPL » www.aopl.org



Thank You!

North Dakota Pipeline Authority

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E-mail: jjkringstad@ndpipelines.com



Website: www.pipeline.nd.gov

